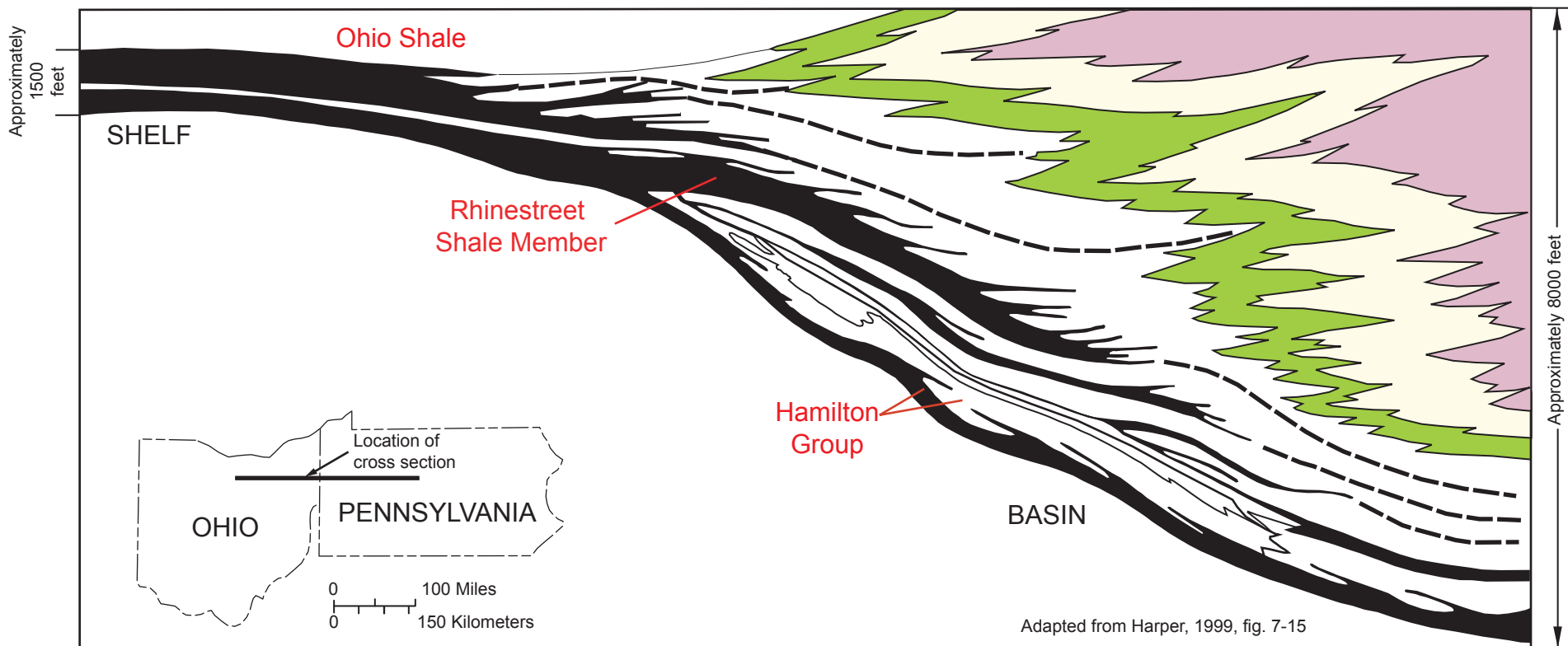


Northwest Ohio Shale AU

Devonian Siltstone and Shale AU

Marcellus Sh. AU






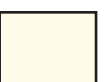

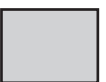


-  Facies I - Dark gray to black shale
-  Facies II - Dark gray shale and siltstone
-  Facies III - Varicolored fossiliferous shale, siltstone and fine-grained sandstone
-  Facies IV - Fossiliferous mudrock, siltstone, sandstone, and conglomerate sandstone
-  Facies V - Gray to red mudstone, siltstone, sandstone and conglomerate
-  Undifferentiated upper Middle Devonian rocks
-  Tully Limestone
-  Hypothetical time line

Figure 5: Generalized cross section of Catskill delta magnafacies across western Pennsylvania and Ohio (adapted from Harper, 1999). The lower part of the section, from the Hamilton Group (Marcellus Shale and Mahantango Formation) to the Tully Limestone, is Middle Devonian in age. The remainder of the section is Upper Devonian.